

AbstractDISTANCE PROTECTIVE RELAY USING
A PROGRAMMABLE THERMAL MODEL FOR THERMAL PROTECTION

The system includes a distance protective relay for power lines which includes a logic capability which is responsive to settings entered into the relay by an end user to implement the value of those settings into stored thermal model equations which emulate the temperature of the power line conductor. The logic within the relay is organized and has the capability of receiving the setting values entered by the user and to use those in the logic equations to determine the temperature of the conductor.